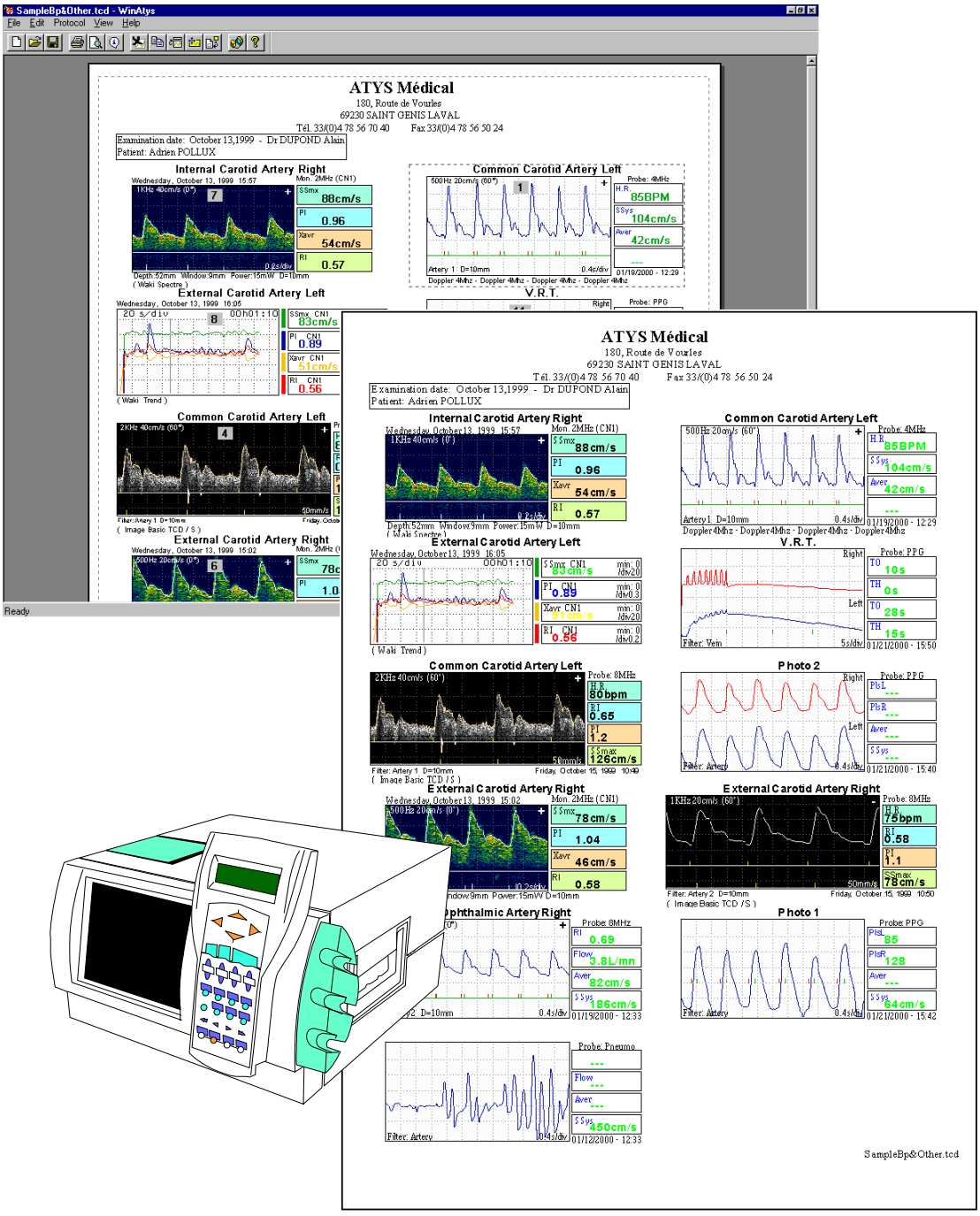
Atys Médical

WinAtys



User's Manual

WinAtys

This manual is dedicated to the users of the *WinAtys* software.

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1 SOFTWARE INSTALLATION

1.1 Required configurations

Operating system for WinAtys
Windows 95, Windows 98, Windows NT4.0, Windows Millenium, Windows 2000, Windows XP.

PC configuration
Pentium 100 or more.
Memory: at least 16 Mo, advised 32 Mo.
One serial port must be available (com1, com2, com3 or com4) for the Doppler device connection.
16550 (or compatible) uart advised.

Display
Minimum 256 colour display; 16 million colour display advised.

Printer
Colour printer advised.

1.2 Installation from floppy disk

Proceed as follows to install the ***WinAtys*** software.
1. Place the diskette in your diskette drive.
2. Close all the programs.
3. Click *Start* from Windows, then click *Run*.., then type « A:Setup.exe » in the command line box and click « OK ». The installation program starts.
4. Follow the instructions on screen.
5. Once the installation is over, to run the software click *Start* from Windows, click *programs*, *Atys Médical*, ***WinAtys***.

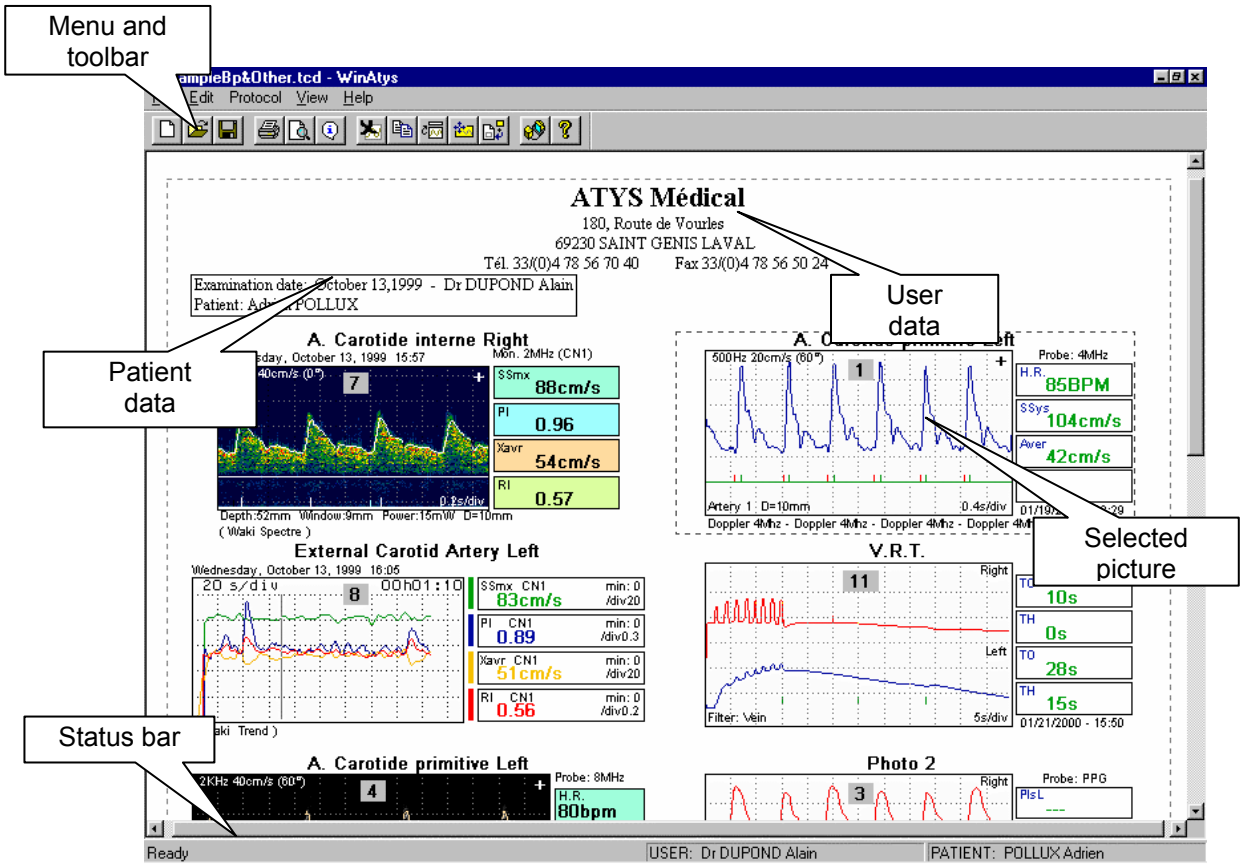
1.3 Installation from CD-Rom

Proceed as follows to install the ***WinAtys*** software.
1. Close all the programs.
2. Place the CD-ROM in your CD-ROM drive.
   The set-up program will automatically run.
3. Choice language in which you will install the software. The installation program starts.
4. Follow the instructions on screen.
5. Once the installation is over, to run the software click *Start* from Windows, click *programs*, *Atys Médical*, ***WinAtys***.

2 GENERAL PRESENTATION OF THE SOFTWARE

The ***WinAtys*** software appears as a document with:

- a menu bar (File, Edit, View,…),
- a tool bar with icons for a quick use of the software with the mouse,
- a status bar on the bottom of the document which displays a quick help when the mouse is moved on the icons of the tool bar as well as a reminder of the name of the user and of the patient.

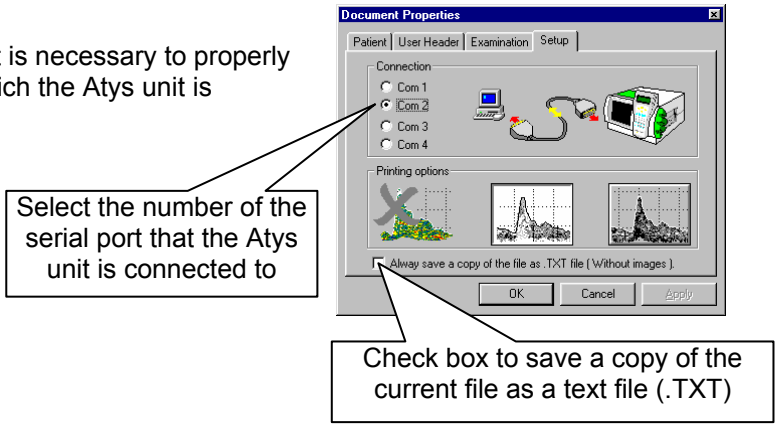


3 SOFTWARE CONFIGURATION

3.1 Serial port configuration

During the first installation of the software, it is necessary to properly configure the serial port of the computer which the Atys unit is connected to.

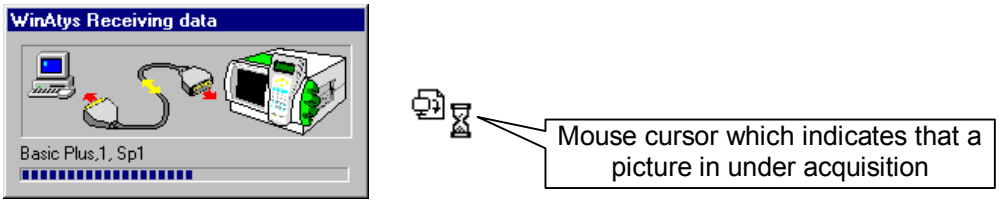
Click on the icon in order to open the document properties dialog box, select Setup, then the number of the serial port corresponding to your installation.



3.2 Checking the good operation of the serial connection

1. Check in the ***WinAtys*** software that the icon is in the pushed position which indicates that the software is ready to receive pictures.
   If necessary, click this icon to put the connection into service.

2. Press the PRINT key of the Atys unit.
   If the connection is established, a dialog box appears indicating the progress in the transfer of the image; the cursor of the mouse indicates that a picture is under acquisition. A few seconds after, a picture appears on the screen.
   In case of a bad connection, the Atys unit prints the picture on its thermal printer immediately.

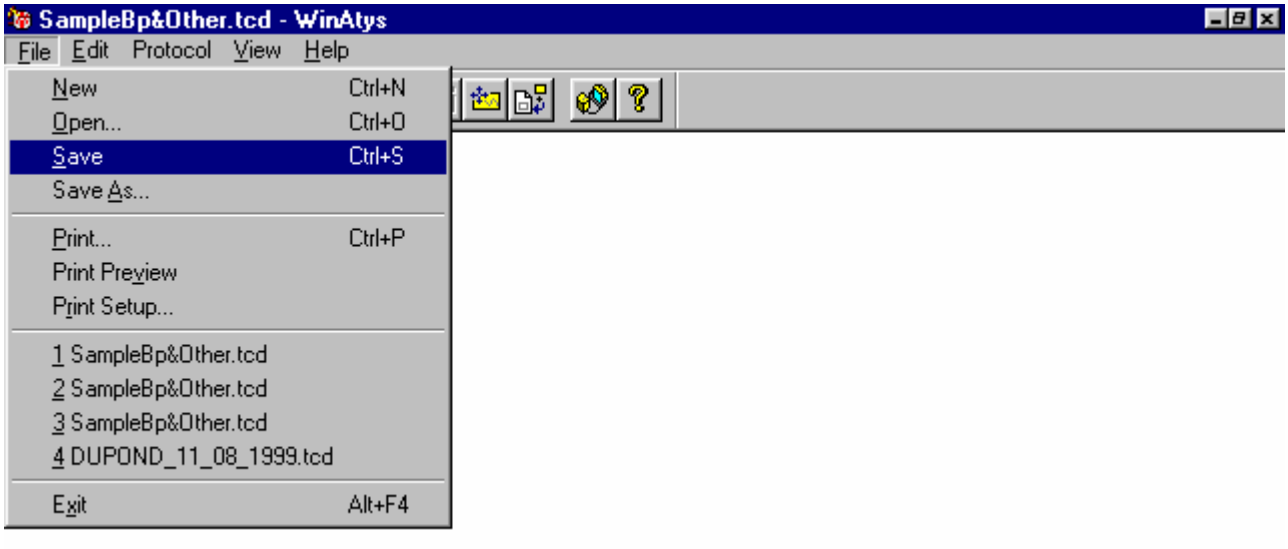


3.3 Export of data

The option « Always save a copy of the file as .TXT file.» allows to save the data about the images (indices, adjustment parameters…) in a text file that is formatted by « ; ». This file can then be easily opened by a data base or a spreadsheet program.

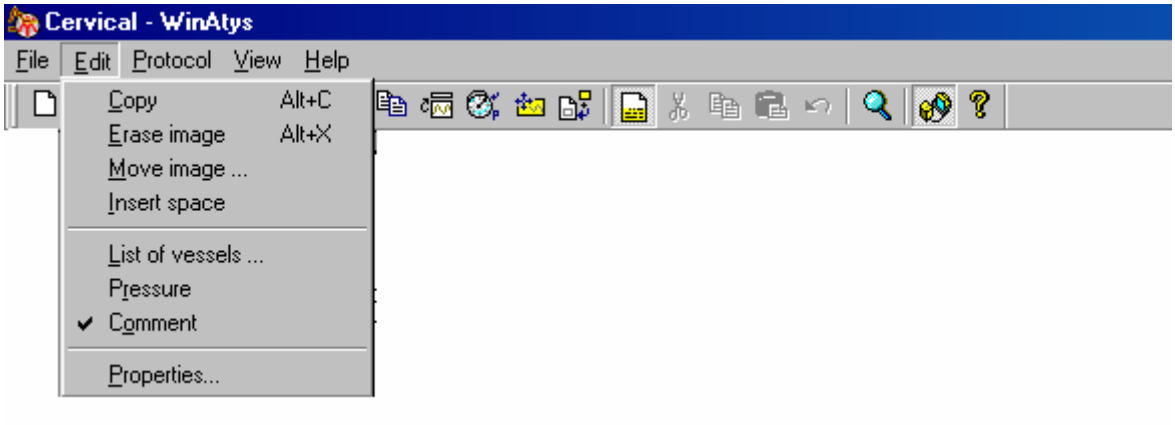
4 DESCRIPTION OF THE MENUS

4.1 «File» Menu



Control	Short cut	4.1.1.1.1	Description
New	Ctrl+N		Create a new document. Display the patient data if the following option is activated « ✓ show patient dialog on every document… ».
Open	Ctrl+O		Open an existing document.
Save	Ctrl+S		Save the active document. Propose a default name for the first saving of the document.
Save As …			Save the active document on a different name
Print…			Open the dialog box « Print » then print the active document. The icon allows the printing without opening the dialog box « Print ».
Print Preview			Display full pages
Print Setup...			Change the printer and printing options
1 DUPOND_11_08… 2 SampleBp&Other…. 3 C:\Atys\..\… 4 Bplus01.tcd			Display the list of the last saved documents.
Exit	Alt+F4		Close the active document and leave the application.

4.2 «Edit» Menu



Control	Short cut	4.2.1.1.1	Description
Copy	Ctrl+C		Copy the selected image and put it on the clipboard. Allow to copy the selected image on an other application.
Erase image	Ctrl+X or Suppr		Erase the current image.
Move image…			Open the dialog box « Move image … ».
Insert space			Insert a space before the selected image. Move forwards (towards the bottom of the page) the following images.
List of vessels…	Enter		Open the dialog box « List of vessels ». Allow to give a name to the selected image and to add a line of comments.
Pressure			Open the pressure table. Allow to edit the vessel name for the reference pressure and the pressure values of each vessel.
Comment			Activate (✓) or deactivate the display of a space where text can be input.
Properties…			Allow to access to the following dialog boxes: User Header, Patient, Examination and Setup.

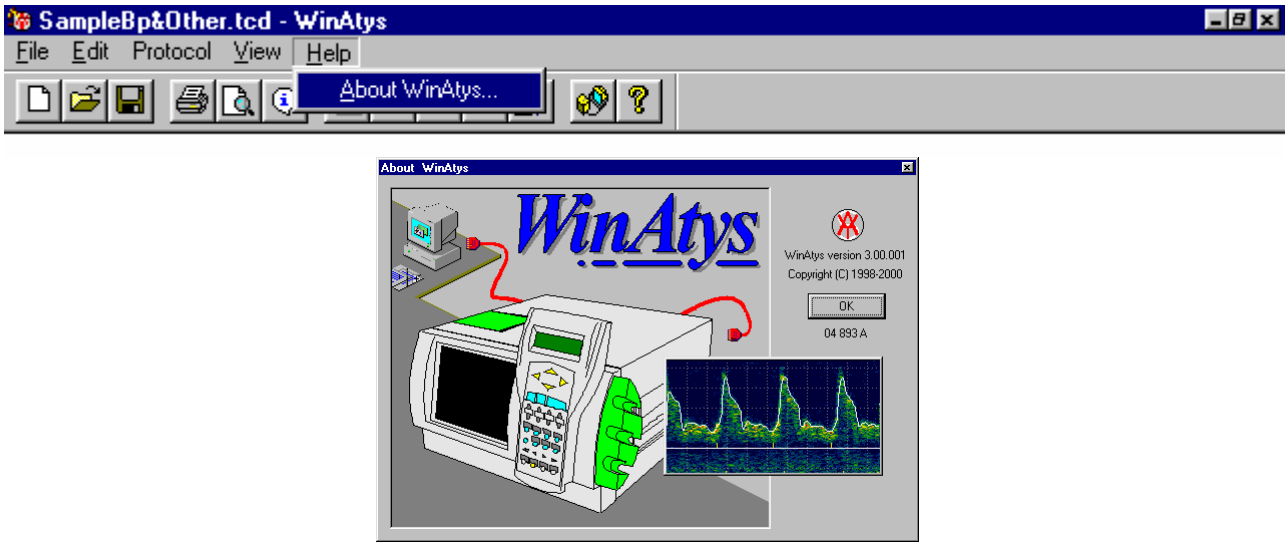
4.3 «Protocol» Menu

Control	Short cut	4.3.1.1.1	Description
New			Create a new protocol
Open…			Open an existing protocol
Save			Save the active document as protocol or save the protocol
Insert image			Insert a protocol image before the selected image
Change acquisition order			Change the acquisition order of the images

4.4 «View» menu

Control	Short cut	4.4.1.1.1	Description
✓Tool bar			Activate (✓) or deactivate the display of the Toll bar.
✓Status bar			Activate (✓) or deactivate the display of the Status bar. The status bar allows to display the patient name and the user name at the bottom of the document.

4.5 «Help» menu

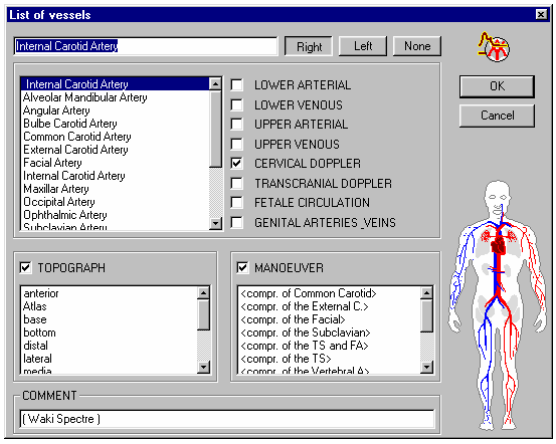


Control	Short cut	4.5.1.1.1	Description
About WinAtys…			Display the data about the software, the version number and the copyright

5 STANDARD FUNCTIONS

5.1 Image annotation

The ***WinAtys*** software allows to add a vessel name and a line of comments for each image.
A double click on the image allows to open the vessel list; this list is also accessible by the following menu « Edit…List of vessels…» or the corresponding icon, when a picture is selected.



5.2 Modification of the list of vessels:

The vessel list comes from a file with a text format (vessels.txt).
This file is located in the following file directory « Atys \ WinAtys \ »; it can be easily modified or complemented with the NOPEPAD word processor from Windows.
Its structure is the following one:

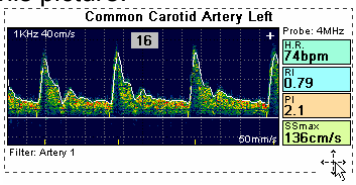
- A line starting with a semi-colon; is a comment line.
- A text between square brackets (for example [Lower Arteries]) is the name of a territory. It is immediately followed by the list of the associated vessels.
- This list is complemented by texts between < > (for example <Valsalva>) which are the names of the manoeuvres (one line between< > for each different manoeuvre) which are associated with this territory.
- The last text between square brackets [Topography] is followed by the list of the available topographies for all the territories.
- Remark: No text between square brackets must be added otherwise the software would be unable to build up its vessel database.

Extract from the Vessels.txt file

; This is a comment
; 1st territory
[Lower Limbs Arteries]
Abdominal Aorta artery
Common Iliac Artery
External Iliac Artery
Common Femoral Artery
Profunda Femoral Artery
Superficial Femoral Artery
;<indication of a manoeuvre >
<without>
<spontaneous Respiration>
<Valsalva>
<spont. resp. & Valsalva>
<above compression>
<below compression>
<above & below compr.>
<compression/decompression>
<Artery-Sound>
<Femoral Flush>
<respiration>
<A-Sound>
<S-Sound>
<Sp.resp.-dist.compr-Vals>

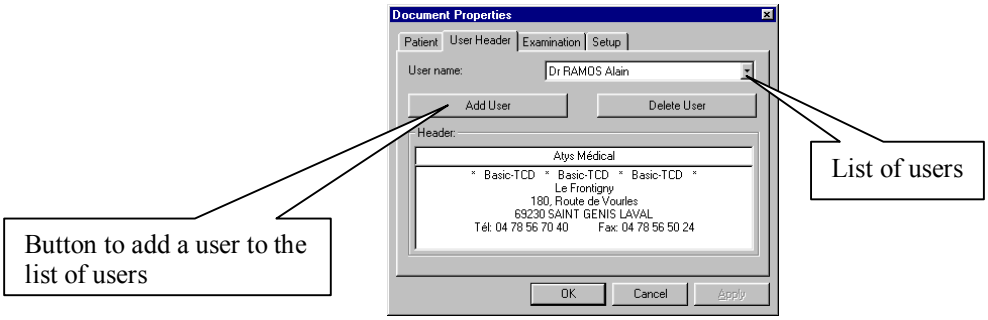
5.3 Picture moving

A picture can be moved in the document by clicking this picture and by maintaining depressed the left button of the mouse; the picture is moved the same way as the mouse cursor.
If the left button of the mouse is released as the mouse cursor is located on an other picture, the picture, which is moved, is inserted in place of this picture.



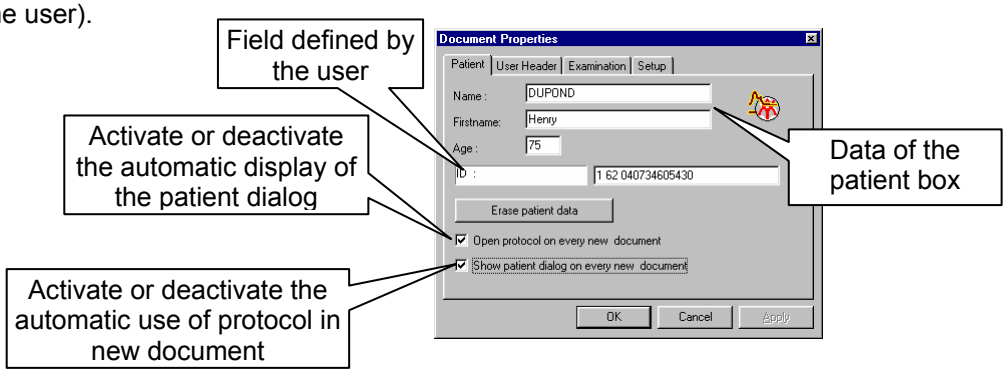
5.4 Headline modification

A double click on the headline of the document allows to open the dialog box « User Header » from « Document Properties »; this dialog box is also reachable from the menu « Edit… Properties.. ».
The first data field corresponds to the name of the user.
The following fields are dedicated to the headline that will be printed on the top of the document.



5.5 Patient data modification

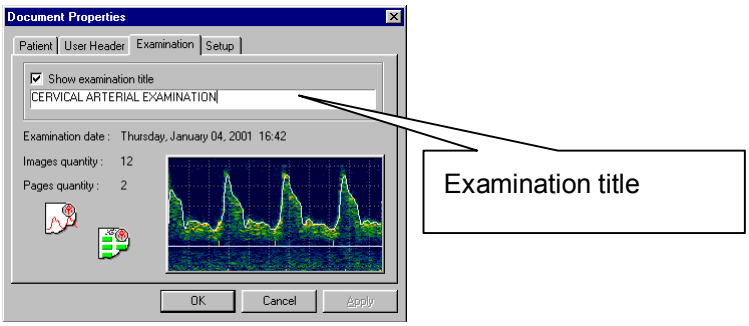
A patient data dialog box is automatically opened when a new document is created. This option can be deactivated by inhibiting « ☑ Show patient dialog on every new document … » on this dialog box.
The patient dialog box can be displayed any time by the following menu « Edit properties » or by a double click in the document on the text about the patient data.
The patient dialog box allows to input the patient's name, first name and age.
A last field allows to input an other identification data of the patient as the social Security number (this field is configurable by the user).



5.6 Add an examination title

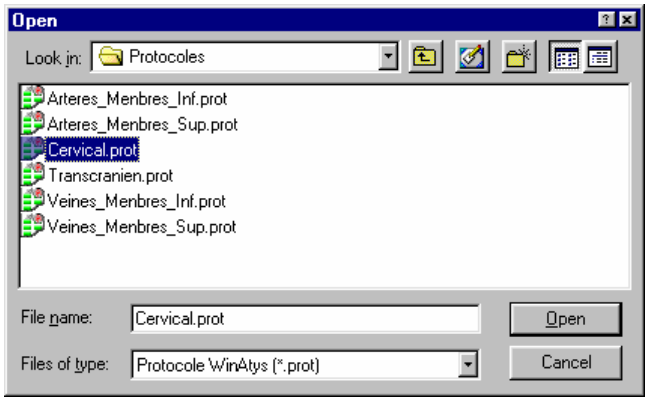
It is possible to add a title to the document.
To do so:
- Open the dialog box "Examination" from "Document Properties"
- Or double click on the title location of the document
- Input the title in the corresponding field

This title can be added to a document or to a protocol.



5.7 Use of protocol

The dialog box « open protocol » is automatically open when starting a new examination.
This option may be deactivated by invalidating « ☑ Show patient dialog on every new document » in the patient dialog box.



5.8 Creation of a new protocol

There are four steps to create a new protocol

1. In protocol Menu, choice « New », then enter the number of images

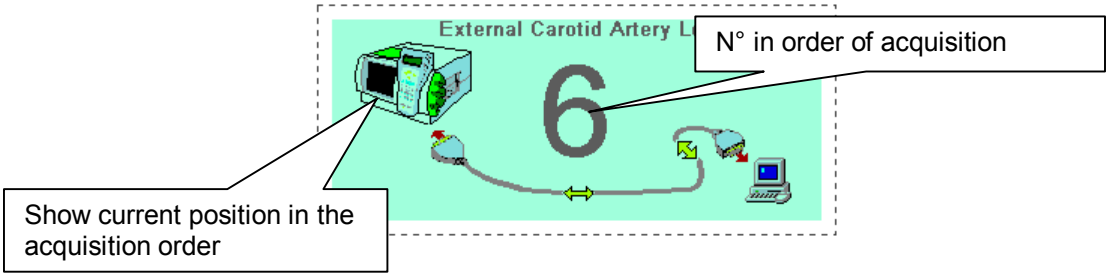
2. Add the vessel names to images

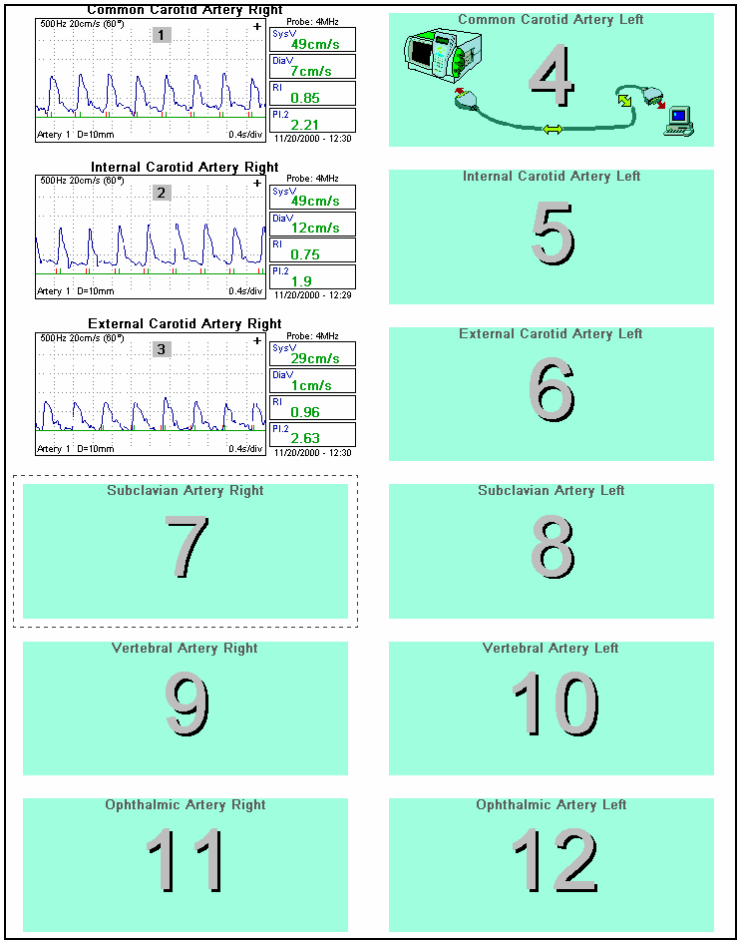
3. In Protocol Menu, choice « Change acquisition order », then click on every image in the order of the acquisition you want.

4. In Protocol Menu, choice « Save ». The dialog box « Save protocol » appears, enter the name of the new protocol and click « Save ».

5.9 While the protocol is under progress

A specific image indicates the current position in the acquisition order.
This position may be changed by pressing the + or - key of the remote control of the **Basic-TCD** or the **WAKI**.
The name of the current vessel is displayed on the remote control.
Images can be added at the end of the protocol; it is necessary to move to the end of the document.



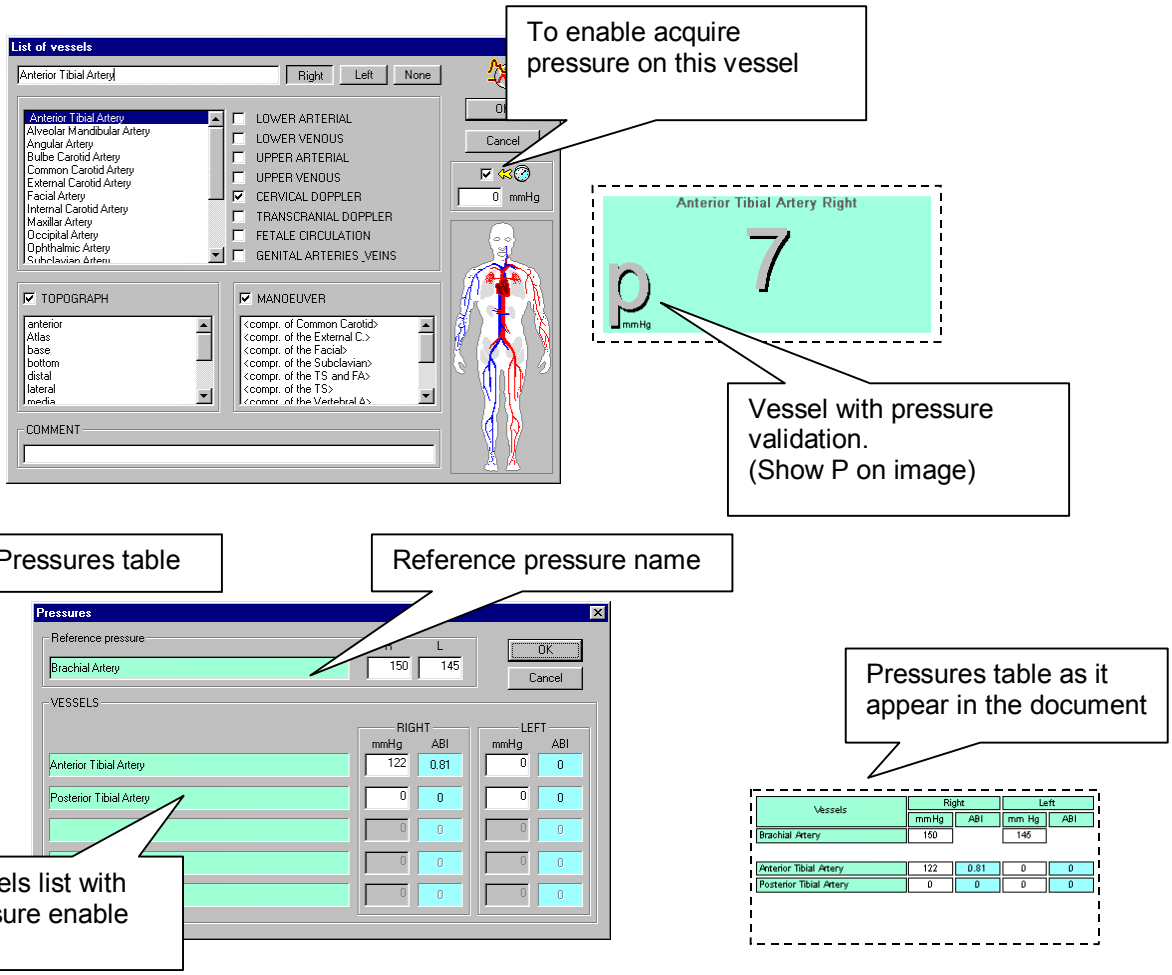


5.10 Capture of pressure

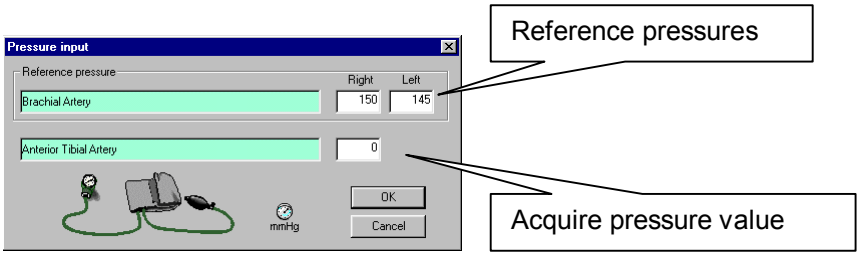
The ***WinAtys*** software allows the capture of pressure and the RPI (Residual Pressure Index) calculation for all the vessels.
It is only necessary to configure a protocol to valid the capture of pressure on selected vessels.

The pressure capture is activated by ticking off the following icon in the vessel properties.

A pressure table will be automatically added in the document. This one allows to configure the vessel name for the reference pressure (for example humeral).
This table allows also the capture and the modification of the pressure values whenever during the examination.



During the examination, just after the acquisition of a picture including a pressure capture (and before the pressure measurement), a dialog box is automatically opened .
This dialog box allows to input (automatically (BASIC 3) or by hand (BASIC 1).
This dialog box allows also to input or modify the reference pressure.
When the PC is connected to a BASIC 3, the dialog box is automatically closed as soon as the pressure value is sent by the BASIC 3 to the PC.



5.11 Text insertion

The following icon or the menu «Edit + Comment» allows to input a text (examination rapport for example). The text is placed on a separate sheet just after the pictures. The maximal length of the inserted text is one page.

To input a text, click on the icon to put it on the pushed position . A text area is displayed on the lower part of the screen. The text can be input into this dedicated area.
After having input the text, click on the icon. It is no longer on the pushed position. The text is automatically inserted below the pictures.

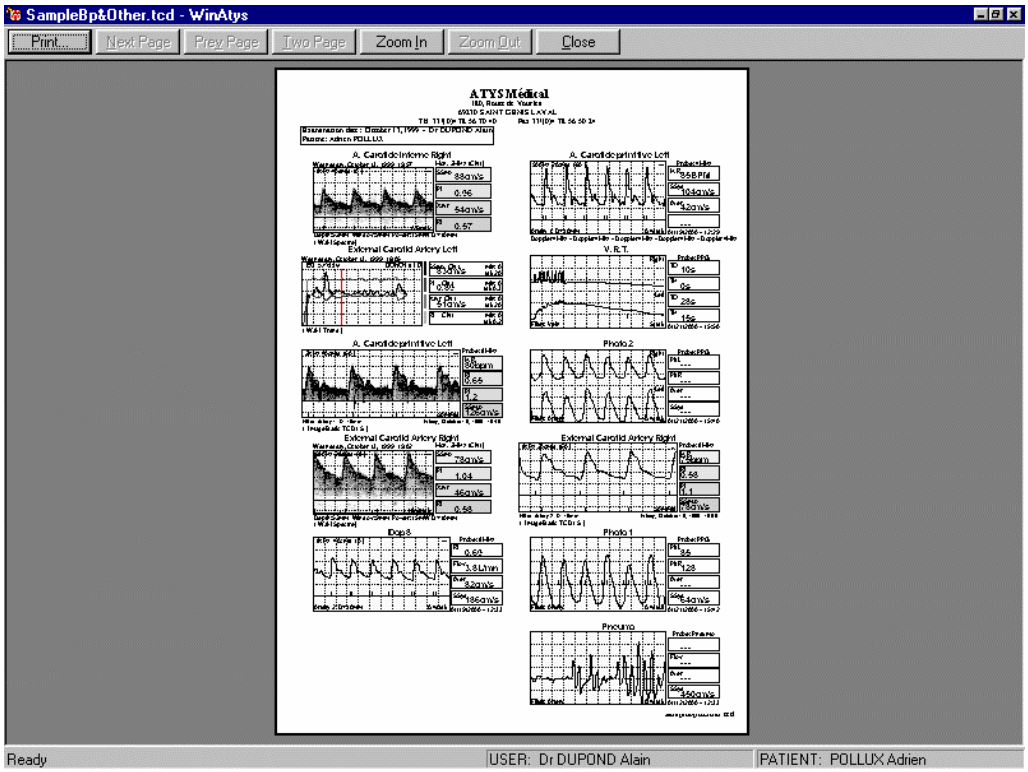
It is possible to modify the text by double clicking on it or by putting the icon in the pushed position or by activating the menu «Edit + Comment».

5.12 Document printing

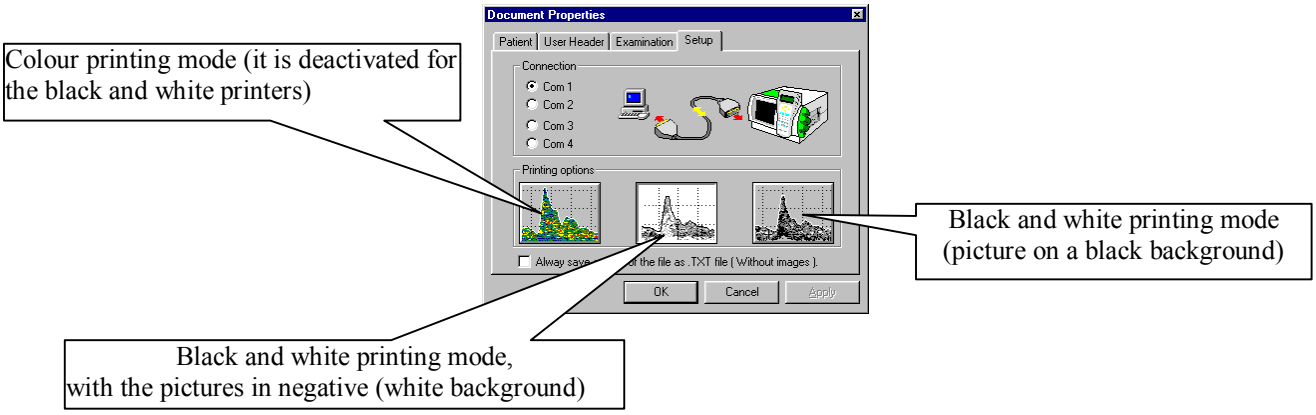
The following icon allows the direct printing of the document with the default parameters of the printer.

The control « File + print… » allows to modify the parameters of the printer or the printer type if several printers are available on the computer.

The following icon or the menu « File + Print Preview » allows to see the document on a full-page display with zoom possibilities before to start the printing.



Three printing modes are available and configurable with the dialog box « Properties Setup ».



6 APPENDIX 1: ICON DESCRIPTION

NEW (Create a New document)

OPEN (Open an existing document)

SAVE (Save the active document)

PRINT (Print the active document)

PRINT PREVIEW (Full-page display)

PROPERTIES (Display the data about the document, the headline, the patient dialog box)

DELETE IMAGE (Delete the active image)

COPY (Copy the selection and put it on the clipboard)

VESSEL LIST (Insert a vessel name)

PRESSURE (Open pressure table)

MOVE IMAGE (Move the active image)

INSERT SPACE (Insert a space before the selected image)

ENABLE/DISABLE (Activate / deactivate the connection with the Atys unit)

ABOUT (Display data about the software, the version number, etc)

INPUT A TEXT

WinAtys archive file

WinAtys protocol file